

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/011754 A1

(51) International Patent Classification⁷: A61L 2/10, 2/18,
2/025, B65B 55/08 // C02F 1/32, 1/34

Jerusalem (IL). NAVON, Mordechai [IL/IL]; 21 Pesach
Yefhar St., 46415 Herzeliya (IL). COHEN, Gil [IL/IL]; 8
Davidson St., 93706 Jerusalem (IL).

(21) International Application Number:

PCT/IL2004/000718

(74) Agent: REINHOLD COHN AND PARTNERS; P.O.B.
4060, 61040 Tel Aviv (IL).

(22) International Filing Date: 4 August 2004 (04.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
157229 4 August 2003 (04.08.2003) IL

(71) Applicant (for all designated States except US): AT-
LANTUM LASERS LIMITED [CY/CY]; 4 Makarios
III Av., Capital Center, 9th floor, Nicosia (CY).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

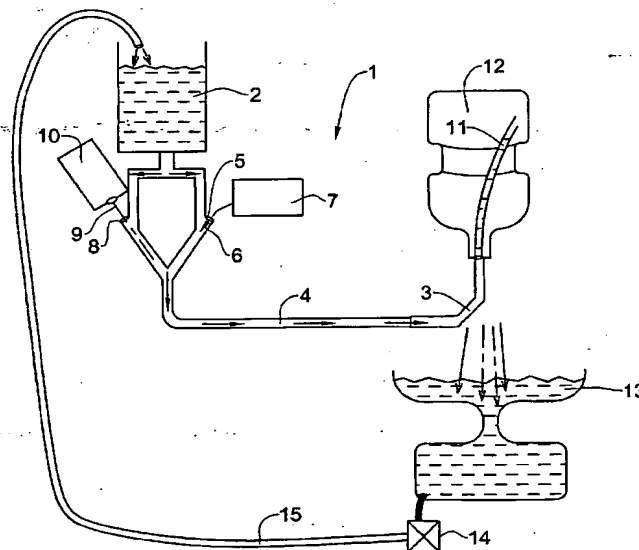
(72) Inventors; and

(75) Inventors/Applicants (for US only): TRIBELSKY,
Zamir [IL/IL]; 12/4 Duchiphat Ave., 90805 Mevaseret
Zion (IL). RABANI, Joseph [IL/IL]; 4 Hasofer St., 96341

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: METHOD FOR ENERGY COUPLING ESPECIALLY USEFUL FOR DISINFECTING, AND VARIOUS SYSTEMS
USING IT



(57) Abstract: Method and system are disclosed for coupling energy from at least one energy source, e.g. UV light source, ultrasonic transducer, or combination thereof, to a target site, e.g. hazardous bacteria, through a streaming liquid, e.g. water. The bacteria toward which energy is to be coupled could be present in the water stream itself and/or on a surface toward which the water stream is to be launched at the end of its flow. Accordingly, in-line aseptic filling is provided, which can fill and simultaneously disinfect a container. According to another embodiment where the water is used for washing, in-line aseptic washing device is provided. A variety of other embodiments is disclosed as well.

BEST AVAILABLE COPY

WO 2005/011754 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report

BEST AVAILABLE COPY